

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: HALO COMMERCIAL

Report Number: P775804

Luminaire Tested: HCDJBL510CSD-HCD6TSQH-HCD6TSQLWW-1000lm-5000K

Issue Date: 2/7/2024

Test Information

Test Method: LM-79-2019
Report Number: P775804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (A2312156B018)
Test Lab:
Issue Date: 2/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: HALO COMMERCIAL
Catalog Number: HCDJBL510CSD-HCD6TSQH-HCD6TSQLWW-1000lm-5000K
Description: 6 INCH SQUARE MEDIUM LENSED WALLWASH KIT
Light Source: SELECTABLE LUMENS AND CCT ARRAY 90CRI / 5000K CCT
Ballast/Driver: -

Summary

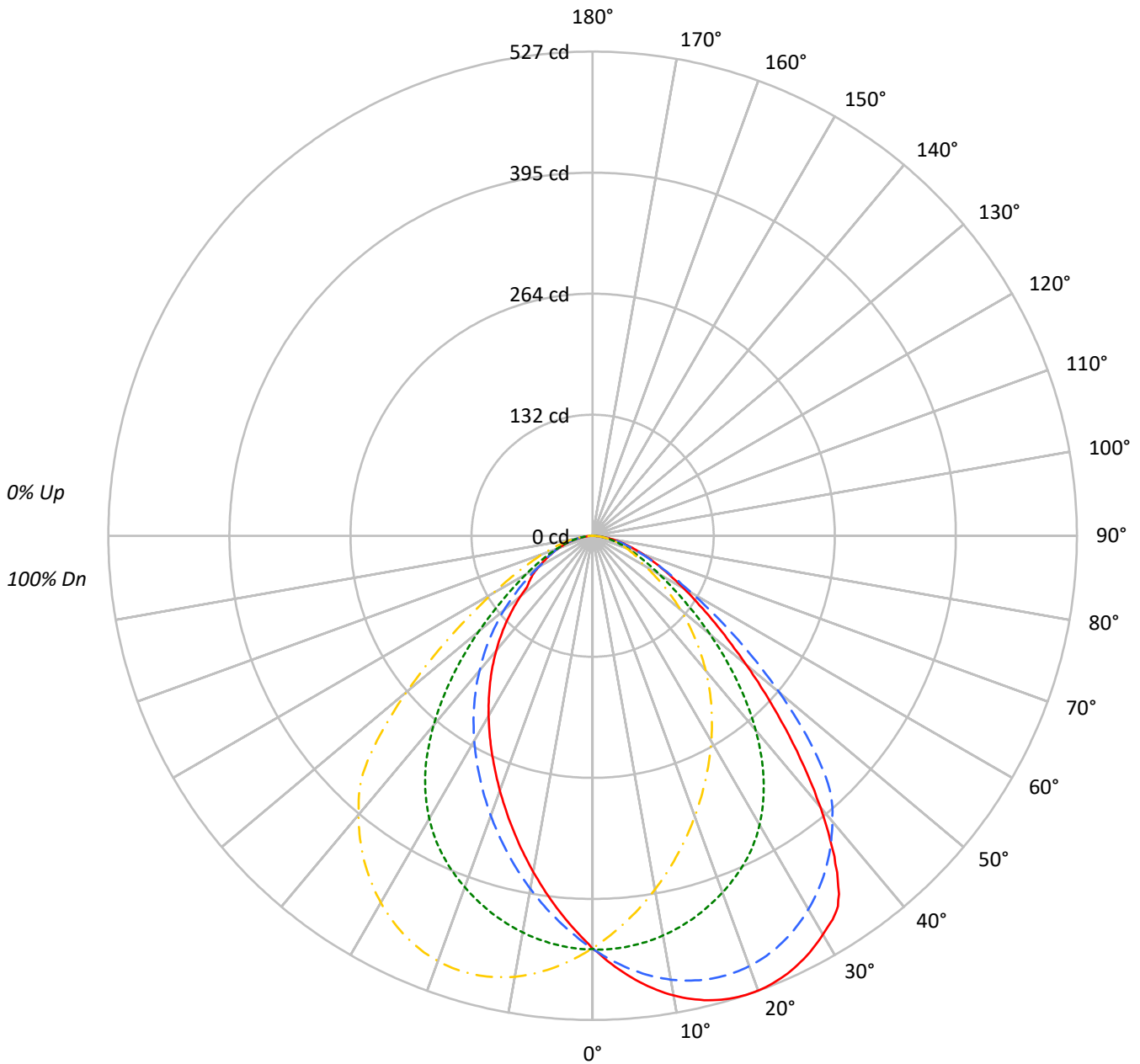
Lumens per Lamp: N/A
Luminaire Lumens: 946.0 lumens
Efficiency: N/A
Efficacy: 94.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.19 / 1.3
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



TEST NUMBER: P775804
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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20										
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0					
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100								
1	111	107	103	100	108	104	101	98	100	97	95	96	94	92	93	91	89	87								
2	102	95	89	84	100	93	88	83	90	85	81	86	83	79	83	80	78	76								
3	94	85	78	72	92	83	77	71	80	75	70	78	73	69	75	71	68	66								
4	87	76	69	63	85	75	68	62	73	66	61	70	65	61	68	64	60	58								
5	81	69	61	55	79	68	60	55	66	59	54	64	58	54	62	57	53	51								
6	75	63	55	49	73	62	54	49	60	53	48	59	52	48	57	52	47	45								
7	70	57	49	44	68	57	49	44	55	48	43	54	48	43	52	47	43	41								
8	65	53	45	39	64	52	45	39	51	44	39	50	43	39	48	43	39	37								
9	61	49	41	36	60	48	41	36	47	40	36	46	40	35	45	39	35	33								
10	57	45	38	33	56	45	37	33	44	37	32	43	37	32	42	36	32	31								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	19354	19354	19354	19354
5°	20858	19393	17751	19319
10°	22205	19311	16242	19167
15°	23317	19158	14821	18940
20°	24137	18928	13521	18653
25°	24661	18623	12337	18281
30°	24918	18062	11251	17674
35°	24494	17051	10213	16699
40°	21678	15501	9173	15125
45°	18060	13469	8080	13079
50°	14609	11166	6859	10818
55°	11830	8933	6230	8723
60°	9868	7242	5847	7173
65°	8395	6031	5338	6072
70°	7301	5174	4910	5262
75°	6371	4475	4458	4625
80°	5232	3843	3719	4017
85°	3359	2964	2075	3260

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 45°
 Vertical Angle: 45°
 Luminance: 21299 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.5	4.5
10°-20°	120.5	12.7
20°-30°	178.8	18.9
30°-40°	204.3	21.6
40°-50°	177.6	18.8
50°-60°	115.6	12.2
60°-70°	65.9	7.0
70°-80°	33.0	3.5
80°-90°	7.8	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	341.8	36.1
0°-40°	546.1	57.7
0°-60°	839.3	88.7
0°-90°	946.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	946.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	450	450	450	450	450	
5°	483	449	411	447	483	47
15°	523	430	332	425	523	148
25°	519	392	260	385	519	239
35°	466	324	194	318	466	286
45°	297	221	133	215	297	229
55°	158	119	83	116	158	143
65°	82	59	52	60	82	83
75°	38	27	27	28	38	41
85°	7	6	4	7	7	9
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5
0.5°	452.3	452.3	452.3	451.7	450.5	449.5	446.2	444.9	444.9	445.4	446.8
1°	455.8	455.6	454.7	453.1	450.5	448.1	443.6	441.5	441.2	441.9	444.2
1.5°	459.4	459.0	457.3	454.5	450.5	446.6	440.9	438.1	437.3	438.4	441.4
2°	462.9	462.3	459.7	455.8	450.3	445.1	438.2	434.6	433.6	435.0	438.6
2.5°	466.3	465.4	462.3	457.1	450.2	443.5	435.5	431.0	429.8	431.4	435.7
3°	469.8	468.6	464.6	458.2	450.0	442.0	432.6	427.5	426.0	427.8	432.9
3.5°	473.1	471.7	466.9	459.4	449.8	440.4	429.9	424.0	422.2	424.2	430.0
4°	476.3	474.7	469.2	460.5	449.4	438.6	427.0	420.5	418.5	420.7	427.1
4.5°	479.5	477.5	471.4	461.5	449.1	437.0	424.2	416.8	414.5	417.0	424.2
5°	482.6	480.4	473.5	462.6	448.7	435.2	421.3	413.2	410.7	413.3	421.2
5.5°	485.4	483.2	475.6	463.5	448.2	433.4	418.4	409.6	406.8	409.7	418.2
6°	488.3	485.9	477.5	464.3	447.7	431.5	415.4	406.0	403.0	406.0	415.2
6.5°	491.2	488.4	479.5	465.2	447.1	429.7	412.5	402.4	399.1	402.4	412.2
7°	493.9	491.0	481.3	465.9	446.5	427.8	409.5	398.6	395.1	398.6	409.1
7.5°	496.4	493.3	483.1	466.7	445.9	425.7	406.4	394.9	391.2	394.9	406.0
8°	498.9	495.7	484.7	467.3	445.1	423.8	403.3	391.3	387.3	391.2	402.9
8.5°	501.3	497.8	486.3	467.8	444.4	421.7	400.3	387.5	383.4	387.5	399.7
9°	503.7	500.0	487.8	468.3	443.5	419.6	397.2	383.9	379.3	383.7	396.6
9.5°	505.9	502.1	489.2	468.7	442.7	417.6	394.1	380.1	375.5	380.0	393.4
10°	507.9	504.0	490.6	469.1	441.7	415.4	390.9	376.3	371.5	376.2	390.2
10.5°	510.0	505.9	491.8	469.4	440.9	413.2	387.7	372.6	367.7	372.5	387.0
11°	511.9	507.6	492.9	469.6	439.8	411.0	384.5	368.9	363.8	368.7	383.8
11.5°	513.7	509.2	494.1	469.9	438.7	408.6	381.3	365.2	359.7	365.0	380.6
12°	515.4	510.8	495.0	469.9	437.5	406.3	378.2	361.3	355.9	361.2	377.3
12.5°	517.0	512.2	495.9	470.0	436.4	404.0	375.0	357.7	352.0	357.5	374.1
13°	518.4	513.6	496.7	469.9	435.2	401.7	371.6	353.9	348.1	353.6	370.8
13.5°	519.8	514.8	497.5	469.8	433.8	399.3	368.3	350.2	344.1	350.0	367.5
14°	520.9	515.9	498.1	469.6	432.5	396.8	365.1	346.5	340.3	346.2	364.2
14.5°	522.1	516.9	498.7	469.4	431.2	394.4	361.7	342.6	336.3	342.4	360.9
15°	523.1	517.9	499.1	469.1	429.8	391.8	358.4	338.9	332.5	338.7	357.6
15.5°	524.0	518.6	499.5	468.7	428.3	389.3	355.1	335.3	328.7	335.1	354.2
16°	524.8	519.3	499.7	468.3	426.8	386.8	351.8	331.5	324.8	331.2	350.9
16.5°	525.4	519.9	499.9	467.7	425.3	384.2	348.5	327.8	321.1	327.6	347.5
17°	526.0	520.3	500.0	467.1	423.6	381.6	345.1	324.1	317.3	323.9	344.2
17.5°	526.4	520.6	500.0	466.4	422.0	379.0	341.8	320.5	313.5	320.1	340.8
18°	526.7	520.8	499.9	465.8	420.3	376.4	338.5	316.7	309.7	316.5	337.4
18.5°	526.9	521.1	499.7	465.0	418.6	373.7	335.1	313.1	306.1	312.9	334.1
19°	526.9	521.1	499.4	464.1	416.8	370.9	331.8	309.5	302.4	309.3	330.8
19.5°	526.9	520.9	499.1	463.3	415.0	368.2	328.3	305.8	298.7	305.6	327.5
20°	526.8	520.7	498.5	462.2	413.1	365.6	324.9	302.2	295.1	302.0	324.1
20.5°	526.5	520.4	498.0	461.2	411.3	362.8	321.6	298.6	291.3	298.5	320.7
21°	526.2	520.0	497.3	460.1	409.3	359.9	318.2	295.1	287.8	294.9	317.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
22.5°	524.2	518.0	494.7	456.3	403.2	351.5	308.2	284.5	277.1	284.4	307.2
23°	523.5	517.1	493.6	454.9	401.2	348.6	304.8	281.0	273.5	280.9	303.9
23.5°	522.5	516.1	492.5	453.5	398.9	345.7	301.5	277.5	270.0	277.5	300.6
24°	521.5	515.0	491.3	451.9	396.7	342.7	298.1	274.1	266.6	274.0	297.2
24.5°	520.3	513.8	489.9	450.5	394.5	339.9	294.8	270.7	263.2	270.4	293.9
25°	519.1	512.5	488.5	448.7	392.0	336.8	291.5	267.1	259.7	267.0	290.5
25.5°	517.7	511.0	487.0	447.0	389.7	333.9	288.0	263.7	256.3	263.7	287.3
26°	516.3	509.6	485.4	445.1	387.1	330.8	284.7	260.3	252.8	260.2	283.9
26.5°	514.7	507.9	483.7	443.3	384.5	327.7	281.4	257.0	249.4	256.9	280.6
27°	513.1	506.3	482.0	441.4	381.9	324.6	278.1	253.6	246.1	253.5	277.3
27.5°	511.3	504.5	480.1	439.3	379.0	321.5	274.7	250.2	242.8	250.2	274.1
28°	509.4	502.7	478.1	437.0	376.0	318.3	271.4	246.8	239.4	246.8	270.8
28.5°	507.5	500.7	476.2	434.8	373.1	315.0	268.2	243.5	236.1	243.5	267.5
29°	505.5	498.5	474.0	432.3	369.9	311.7	264.8	240.2	232.9	240.2	264.2
29.5°	503.3	496.4	471.8	429.8	366.7	308.4	261.6	236.9	229.6	237.0	260.8
30°	501.2	494.2	469.5	427.1	363.3	304.9	258.2	233.7	226.3	233.5	257.5
30.5°	499.0	491.8	467.2	424.3	359.9	301.4	254.9	230.2	223.0	230.3	254.3
31°	496.8	489.5	464.7	421.4	356.4	298.0	251.6	226.9	219.8	227.1	251.0
31.5°	494.7	487.0	462.2	418.2	352.8	294.3	248.3	223.8	216.6	223.8	247.7
32°	492.6	484.5	459.6	415.0	349.0	290.7	245.0	220.5	213.4	220.6	244.4
32.5°	490.0	482.0	456.9	411.6	345.1	287.1	241.6	217.2	210.2	217.4	241.2
33°	487.1	479.5	454.2	408.1	341.0	283.3	238.3	214.1	207.0	214.2	237.9
33.5°	483.6	477.0	451.4	404.5	337.1	279.6	235.0	210.9	203.8	211.2	234.6
34°	478.2	474.4	448.5	400.8	332.9	275.8	231.6	207.7	200.7	207.8	231.3
34.5°	473.4	471.7	445.4	396.7	328.8	271.9	228.3	204.4	197.5	204.8	228.0
35°	466.0	468.4	442.3	392.5	324.4	268.0	225.0	201.3	194.3	201.6	224.8
35.5°	459.2	464.6	439.1	388.3	320.0	264.2	221.8	198.1	191.2	198.5	221.5
36°	452.6	459.4	435.8	383.8	315.4	260.2	218.4	195.0	188.1	195.4	218.2
36.5°	444.1	454.3	432.4	379.3	310.8	256.3	215.0	191.8	184.9	192.2	214.8
37°	437.1	447.6	428.9	374.6	306.1	252.2	211.7	188.6	181.8	189.0	211.6
37.5°	428.7	440.4	425.3	369.6	301.3	248.2	208.3	185.6	178.7	185.9	208.2
38°	420.0	434.5	421.7	364.5	296.1	244.1	205.0	182.4	175.6	182.8	204.9
38.5°	412.1	426.0	417.8	359.4	291.3	240.0	201.6	179.3	172.5	179.7	201.6
39°	402.7	418.9	414.1	354.2	286.2	236.0	198.1	176.2	169.3	176.6	198.4
39.5°	394.6	411.2	410.0	348.6	281.1	231.8	194.7	173.0	166.3	173.5	194.9
40°	385.7	402.4	406.0	342.9	275.8	227.6	191.3	169.9	163.2	170.4	191.5
40.5°	375.9	395.3	401.8	337.1	270.5	223.4	188.0	166.8	160.2	167.3	188.2
41°	367.9	386.3	398.0	331.2	265.2	219.3	184.5	163.7	157.1	164.2	185.0
41.5°	358.2	377.7	393.7	325.0	259.8	215.0	181.1	160.6	154.1	161.2	181.5
42°	349.5	369.7	389.0	318.8	254.3	210.8	177.8	157.5	151.0	158.1	178.2
42.5°	340.7	360.4	384.0	312.6	248.9	206.6	174.5	154.5	147.9	155.1	175.0
43°	330.8	352.7	378.8	306.2	243.4	202.4	171.1	151.4	144.8	152.1	171.7
43.5°	323.1	343.8	372.0	299.6	237.8	198.1	167.5	148.3	141.8	149.0	168.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
45°	296.6	317.4	349.8	279.7	221.2	185.3	157.5	139.2	132.7	139.9	158.5
45.5°	287.2	309.5	342.4	272.9	215.5	181.2	154.2	136.1	129.7	136.9	155.2
46°	280.0	300.9	334.0	266.2	210.1	176.9	150.8	133.1	126.6	133.8	151.9
46.5°	270.9	291.9	325.5	259.2	204.5	172.8	147.5	130.0	123.5	130.8	148.4
47°	263.3	284.5	317.6	252.3	199.0	168.6	144.1	126.9	120.5	127.8	145.2
47.5°	255.5	275.3	308.4	245.5	193.4	164.4	140.8	123.9	117.5	124.9	141.9
48°	246.8	268.2	300.1	238.7	188.0	160.4	137.6	120.8	114.5	121.8	138.6
48.5°	240.5	260.1	291.6	231.7	182.6	156.1	134.3	117.8	111.5	118.8	135.3
49°	231.6	251.8	282.4	224.9	177.1	152.1	130.8	114.7	108.5	115.8	132.1
49.5°	225.7	245.0	274.4	218.0	171.9	148.0	127.6	111.8	105.5	112.8	128.8
50°	218.1	236.2	265.4	211.2	166.7	144.1	124.3	108.8	102.4	109.8	125.6
50.5°	211.2	230.0	256.9	204.3	161.2	140.0	121.1	105.7	99.4	106.9	122.4
51°	205.1	221.9	248.6	197.5	156.1	136.1	117.9	102.8	96.5	103.9	119.1
51.5°	197.3	215.5	239.7	190.9	151.2	132.3	114.7	99.7	93.4	100.9	116.0
52°	192.4	208.8	232.2	184.3	146.3	128.4	111.5	96.7	90.6	98.0	112.8
52.5°	185.1	201.6	223.8	177.8	141.3	124.7	108.6	93.7	89.3	95.0	109.7
53°	180.1	195.8	215.9	171.4	136.7	120.9	105.4	91.4	88.0	92.6	106.6
53.5°	174.3	188.1	208.2	165.1	132.0	117.2	102.3	89.0	86.7	90.1	103.5
54°	168.4	183.0	200.2	158.9	127.6	113.7	99.3	86.8	85.5	87.7	100.6
54.5°	163.6	176.1	193.2	152.9	123.3	110.1	96.3	84.5	84.2	85.2	97.7
55°	157.6	170.7	185.6	147.2	119.0	106.6	93.3	82.2	83.0	82.8	94.7
55.5°	153.6	165.0	178.9	141.6	115.0	103.3	90.4	80.9	81.6	81.5	91.8
56°	147.6	159.1	171.7	136.2	110.9	99.9	87.6	79.7	80.2	80.3	89.0
56.5°	143.9	154.2	165.3	131.0	107.2	96.7	84.6	78.3	78.8	78.9	86.3
57°	138.8	148.1	158.9	125.9	103.4	93.5	81.7	77.0	77.3	77.6	83.5
57.5°	134.9	143.9	152.4	121.0	99.9	90.6	79.1	75.6	75.8	76.2	80.6
58°	130.6	138.1	146.5	116.5	96.5	87.7	76.4	74.2	74.3	74.9	78.1
58.5°	126.4	134.2	140.6	112.0	93.2	84.7	73.7	72.8	72.7	73.5	75.3
59°	122.6	128.8	135.2	107.8	90.1	81.8	71.1	71.4	71.1	72.1	72.7
59.5°	118.4	125.1	129.6	103.7	87.1	79.1	68.6	70.0	69.5	70.6	70.3
60°	114.6	120.3	124.6	99.8	84.1	76.6	66.1	68.6	67.9	69.1	67.8
60.5°	110.8	116.7	119.4	96.1	81.0	74.0	63.8	67.0	66.3	67.6	65.5
61°	107.2	112.2	114.9	92.5	78.3	71.6	61.6	65.6	64.7	66.1	63.2
61.5°	103.8	108.6	110.1	89.0	75.6	69.1	60.3	64.0	63.0	64.6	61.2
62°	100.5	104.6	106.0	85.7	73.0	66.9	59.1	62.5	61.4	63.0	59.7
62.5°	97.0	101.2	101.5	82.6	70.5	64.6	57.8	61.0	59.8	61.5	58.5
63°	94.1	97.5	97.7	79.7	68.1	62.5	56.5	59.4	58.2	59.9	57.3
63.5°	90.9	94.3	93.7	76.7	65.8	60.4	55.3	57.9	56.7	58.4	56.1
64°	88.1	90.8	90.1	73.9	63.6	58.3	54.1	56.4	55.2	56.8	54.9
64.5°	85.0	87.8	86.5	71.2	61.3	56.4	52.8	54.9	53.7	55.5	53.6
65°	82.4	84.6	83.2	68.7	59.2	54.5	51.5	53.4	52.4	54.0	52.5
65.5°	79.7	81.8	80.0	66.3	57.2	52.7	50.3	52.0	51.0	52.5	51.2
66°	77.1	78.7	76.9	63.9	55.1	50.9	48.9	50.7	49.6	51.0	49.9



TEST NUMBER: P775804

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-HCD6TSQLWW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
67.5°	69.4	70.7	68.1	57.2	49.5	45.9	45.1	46.5	45.5	46.8	46.1
68°	67.1	68.0	65.4	55.0	47.7	44.3	43.8	45.2	44.3	45.5	44.8
68.5°	64.7	65.6	62.9	53.0	46.0	42.8	42.5	43.9	42.9	44.1	43.5
69°	62.4	63.2	60.3	51.0	44.4	41.3	41.3	42.5	41.6	42.9	42.1
69.5°	60.1	60.8	57.9	49.1	42.5	39.9	40.0	41.3	40.3	41.5	40.8
70°	58.0	58.5	55.7	47.2	41.1	38.4	38.7	40.0	39.0	40.2	39.6
70.5°	55.8	56.2	53.3	45.3	39.5	37.1	37.5	38.7	37.8	38.9	38.4
71°	53.6	54.1	51.2	43.6	38.0	35.7	36.3	37.4	36.6	37.6	37.1
71.5°	51.6	51.9	49.1	41.9	36.5	34.4	35.0	36.3	35.3	36.4	35.8
72°	49.6	49.8	46.9	40.2	35.0	33.2	33.8	35.0	34.0	35.1	34.6
72.5°	47.6	47.8	44.9	38.6	33.6	31.9	32.6	33.7	32.8	33.8	33.4
73°	45.5	45.6	43.0	37.1	32.2	30.7	31.5	32.4	31.6	32.5	32.2
73.5°	43.6	43.7	41.1	35.5	30.8	29.6	30.3	31.2	30.4	31.4	30.9
74°	41.7	41.8	39.1	34.0	29.4	28.5	29.1	30.0	29.2	30.1	29.8
74.5°	39.8	39.9	37.4	32.5	28.2	27.5	27.9	28.8	27.9	28.9	28.6
75°	38.3	38.3	35.7	31.0	26.9	26.6	26.8	27.5	26.8	27.6	27.4
75.5°	36.5	36.5	34.0	29.6	25.7	25.6	25.6	26.3	25.6	26.4	26.2
76°	34.7	34.7	32.3	28.3	24.4	24.6	24.5	25.1	24.4	25.3	25.1
76.5°	32.7	32.8	30.6	26.9	23.2	23.6	23.4	23.9	23.2	24.0	23.9
77°	30.9	31.0	28.9	25.5	22.1	22.6	22.2	22.7	22.1	22.8	22.7
77.5°	29.3	29.4	27.3	24.1	20.9	21.5	21.0	21.5	20.9	21.6	21.5
78°	27.6	27.7	25.8	22.8	19.7	20.6	19.9	20.3	19.6	20.5	20.5
78.5°	25.9	26.1	24.2	21.5	18.7	19.5	18.8	19.1	18.4	19.3	19.3
79°	24.3	24.4	22.7	20.3	17.6	18.4	17.7	17.9	17.3	18.0	18.1
79.5°	22.7	22.9	21.2	19.1	16.5	17.5	16.6	16.7	16.2	16.8	17.0
80°	21.1	21.3	19.7	17.8	15.5	16.4	15.6	15.6	15.0	15.7	15.9
80.5°	19.6	19.8	18.3	16.6	14.4	15.5	14.5	14.3	13.9	14.5	14.8
81°	18.1	18.3	17.0	15.5	13.4	14.4	13.4	13.2	12.8	13.3	13.7
81.5°	16.6	16.8	15.6	14.3	12.5	13.4	12.4	11.9	11.6	12.2	12.6
82°	15.1	15.4	14.3	13.2	11.4	12.5	11.3	10.9	10.6	11.1	11.6
82.5°	13.8	14.0	13.0	12.2	10.6	11.5	10.3	9.8	9.4	10.0	10.6
83°	12.4	12.6	11.8	11.1	9.6	10.6	9.4	8.7	8.3	8.9	9.7
83.5°	10.9	11.1	10.6	10.0	8.7	9.6	8.4	7.8	7.3	7.8	8.7
84°	9.5	9.7	9.5	9.0	7.8	8.6	7.6	6.7	6.2	6.7	7.9
84.5°	8.1	8.4	8.4	8.0	6.9	7.7	6.6	5.7	5.1	5.7	6.9
85°	6.8	7.1	7.5	7.0	6.0	6.7	5.7	4.8	4.2	4.7	6.1
85.5°	5.4	5.9	6.4	6.1	5.1	5.8	4.8	4.1	3.5	3.9	5.2
86°	4.5	4.9	5.4	5.1	4.4	4.9	3.9	3.4	3.0	3.3	4.4
86.5°	3.7	4.1	4.5	4.3	3.5	3.9	3.1	2.8	2.5	2.7	3.6
87°	3.1	3.3	3.6	3.3	2.8	3.1	2.3	2.1	1.8	2.1	2.9
87.5°	2.3	2.5	2.8	2.5	2.0	2.2	1.5	1.4	1.3	1.5	2.0
88°	1.7	1.7	1.9	1.6	1.3	1.4	0.7	0.7	0.7	0.9	1.3
88.5°	1.0	1.0	1.1	0.7	0.5	0.6	0.2	0.2	0.3	0.3	0.5



TEST NUMBER: P775804

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-HCD6TSQLWW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P775804

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-HCD6TSQLWW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	449.5	449.5	449.5	449.5	449.5	449.5
0.5°	448.7	450.3	452.1	451.3	451.7	452.3
1°	447.1	450.1	453.2	453.9	454.9	455.8
1.5°	445.5	449.9	454.5	456.2	458.2	459.4
2°	443.8	449.7	455.6	458.6	461.4	462.9
2.5°	442.2	449.4	456.6	460.9	464.5	466.3
3°	440.4	449.0	457.6	463.1	467.6	469.8
3.5°	438.6	448.5	458.6	465.4	470.7	473.1
4°	436.8	448.1	459.4	467.5	473.6	476.3
4.5°	434.9	447.6	460.4	469.5	476.5	479.5
5°	433.0	447.0	461.1	471.6	479.2	482.6
5.5°	431.0	446.3	461.9	473.5	482.0	485.4
6°	429.0	445.7	462.5	475.4	484.6	488.3
6.5°	427.0	444.9	463.0	477.1	487.0	491.2
7°	425.0	444.2	463.7	478.8	489.5	493.9
7.5°	422.8	443.3	464.1	480.4	491.8	496.4
8°	420.7	442.5	464.5	482.0	494.1	498.9
8.5°	418.6	441.5	464.8	483.4	496.2	501.3
9°	416.3	440.5	465.2	484.8	498.2	503.7
9.5°	414.1	439.5	465.4	486.1	500.3	505.9
10°	411.8	438.4	465.5	487.4	502.1	507.9
10.5°	409.5	437.2	465.6	488.4	503.8	510.0
11°	407.2	436.1	465.6	489.5	505.5	511.9
11.5°	404.8	434.9	465.5	490.3	507.1	513.7
12°	402.5	433.5	465.4	491.2	508.5	515.4
12.5°	400.0	432.2	465.3	492.0	509.9	517.0
13°	397.6	430.8	465.0	492.7	511.1	518.4
13.5°	395.0	429.4	464.6	493.3	512.3	519.8
14°	392.4	428.0	464.2	493.9	513.3	520.9
14.5°	389.9	426.5	463.8	494.2	514.2	522.1
15°	387.3	424.9	463.3	494.6	515.1	523.1
15.5°	384.8	423.3	462.7	494.8	515.7	524.0
16°	382.2	421.7	462.0	494.9	516.4	524.8
16.5°	379.5	420.0	461.2	494.9	516.8	525.4
17°	376.8	418.2	460.5	494.8	517.1	526.0
17.5°	374.1	416.4	459.6	494.7	517.4	526.4
18°	371.4	414.6	458.7	494.5	517.5	526.7
18.5°	368.7	412.8	457.6	494.2	517.5	526.9
19°	366.0	410.9	456.6	493.6	517.5	526.9
19.5°	363.1	409.0	455.5	493.1	517.3	526.9
20°	360.3	407.1	454.3	492.6	517.0	526.8
20.5°	357.6	405.0	453.0	491.8	516.6	526.5
21°	354.7	402.9	451.7	491.0	516.0	526.2

TEST NUMBER: P775804

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-HCD6TSQLWW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
22.5°	346.1	396.5	447.4	488.0	513.8	524.2
23°	343.2	394.3	445.8	486.8	512.8	523.5
23.5°	340.2	392.0	444.1	485.5	511.8	522.5
24°	337.3	389.7	442.3	484.2	510.6	521.5
24.5°	334.2	387.2	440.5	482.8	509.3	520.3
25°	331.2	384.8	438.7	481.2	507.9	519.1
25.5°	328.2	382.2	436.7	479.6	506.4	517.7
26°	325.1	379.6	434.8	477.8	504.8	516.3
26.5°	322.1	377.0	432.6	476.0	503.1	514.7
27°	319.0	374.2	430.5	474.1	501.5	513.1
27.5°	315.8	371.2	428.2	472.1	499.6	511.3
28°	312.5	368.3	425.8	470.1	497.7	509.4
28.5°	309.3	365.2	423.4	467.9	495.6	507.5
29°	306.0	362.0	420.7	465.7	493.5	505.5
29.5°	302.5	358.8	418.0	463.5	491.3	503.3
30°	299.0	355.5	415.2	461.0	489.1	501.2
30.5°	295.6	352.0	412.2	458.6	486.6	499.0
31°	292.1	348.6	409.1	456.0	484.2	496.8
31.5°	288.6	345.0	405.9	453.4	481.7	494.7
32°	285.1	341.4	402.6	450.7	479.0	492.6
32.5°	281.3	337.5	399.1	447.9	476.5	490.0
33°	277.7	333.8	395.5	445.1	473.8	487.1
33.5°	274.1	329.9	391.8	442.2	471.1	483.6
34°	270.3	325.9	388.0	439.3	468.7	478.2
34.5°	266.5	321.8	384.1	436.2	466.0	473.4
35°	262.8	317.7	380.1	433.0	462.8	466.0
35.5°	259.0	313.2	375.8	429.8	459.4	459.2
36°	255.1	308.8	371.5	426.4	454.8	452.6
36.5°	251.2	304.1	367.2	422.9	449.3	444.1
37°	247.4	299.4	362.5	419.4	443.9	437.1
37.5°	243.5	294.5	357.7	415.8	436.5	428.7
38°	239.5	289.5	352.6	412.1	430.2	420.0
38.5°	235.3	284.5	347.2	408.1	423.0	412.1
39°	231.2	279.4	341.9	404.4	414.8	402.7
39.5°	227.1	274.3	336.2	400.5	408.4	394.6
40°	223.0	269.1	330.3	396.5	400.0	385.7
40.5°	218.8	263.7	324.3	392.2	391.9	375.9
41°	214.6	258.3	318.2	388.3	384.4	367.9
41.5°	210.4	253.2	312.1	384.2	375.6	358.2
42°	206.2	247.7	305.8	380.0	367.7	349.5
42.5°	202.0	242.2	299.6	375.6	359.3	340.7
43°	197.8	236.7	293.1	370.9	350.3	330.8
43.5°	193.6	231.3	286.5	365.8	342.7	323.1

TEST NUMBER: P775804

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-HCD6TSQLWW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
45°	181.0	214.8	266.6	346.5	317.4	296.6
45.5°	176.7	209.3	260.0	338.4	308.1	287.2
46°	172.4	203.9	253.2	330.9	300.7	280.0
46.5°	168.3	198.5	246.4	323.1	292.1	270.9
47°	164.2	193.1	239.7	314.3	284.2	263.3
47.5°	160.2	187.6	232.9	306.4	276.3	255.5
48°	156.0	182.3	226.2	297.7	267.5	246.8
48.5°	152.0	177.0	219.6	288.9	260.8	240.5
49°	148.0	171.7	212.9	280.9	252.3	231.6
49.5°	144.2	166.6	206.1	271.8	245.5	225.7
50°	140.1	161.5	199.5	263.4	238.2	218.1
50.5°	136.1	156.3	192.9	255.2	230.1	211.2
51°	132.3	151.4	186.4	246.6	223.9	205.1
51.5°	128.6	146.5	180.1	238.8	215.8	197.3
52°	124.9	141.9	173.9	230.3	210.2	192.4
52.5°	121.0	137.4	167.7	222.3	203.3	185.1
53°	117.5	132.8	161.6	214.9	196.6	180.1
53.5°	114.0	128.4	155.9	206.8	190.7	174.3
54°	110.5	124.2	150.2	199.6	183.5	168.4
54.5°	107.2	120.3	144.7	192.1	178.5	163.6
55°	103.8	116.2	139.4	185.1	171.6	157.6
55.5°	100.6	112.4	134.4	178.3	166.8	153.6
56°	97.5	108.7	129.5	171.3	160.6	147.6
56.5°	94.4	105.3	124.8	165.2	155.6	143.9
57°	91.6	101.7	120.2	158.7	150.4	138.8
57.5°	88.7	98.3	115.9	152.8	144.9	134.9
58°	86.0	95.1	111.8	146.6	140.4	130.6
58.5°	83.2	92.0	107.7	141.2	135.1	126.4
59°	80.3	89.0	104.0	135.8	131.2	122.6
59.5°	77.7	86.1	100.3	130.4	126.2	118.4
60°	75.3	83.3	96.8	125.4	122.5	114.6
60.5°	72.9	80.5	93.4	120.4	117.7	110.8
61°	70.6	77.8	90.1	115.9	114.3	107.2
61.5°	68.4	75.4	87.0	111.2	109.9	103.8
62°	66.1	72.9	84.0	107.2	106.6	100.5
62.5°	64.0	70.5	81.2	103.0	102.6	97.0
63°	62.0	68.1	78.4	99.1	99.4	94.1
63.5°	59.9	65.9	75.6	95.2	95.8	90.9
64°	58.0	63.8	72.9	91.7	92.7	88.1
64.5°	56.2	61.6	70.5	88.1	89.2	85.0
65°	54.4	59.6	68.0	84.8	86.4	82.4
65.5°	52.6	57.6	65.7	81.6	83.1	79.7
66°	50.9	55.7	63.3	78.5	80.5	77.1



TEST NUMBER: P775804

CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-HCD6TSQLWW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
67.5°	46.0	50.1	56.9	70.0	72.1	69.4
68°	44.5	48.3	54.8	67.3	69.6	67.1
68.5°	43.0	46.6	52.9	64.7	67.1	64.7
69°	41.5	45.0	51.0	62.3	64.6	62.4
69.5°	40.1	43.4	49.1	59.8	62.3	60.1
70°	38.7	41.8	47.2	57.5	59.8	58.0
70.5°	37.3	40.2	45.4	55.2	57.6	55.8
71°	36.0	38.6	43.7	53.0	55.3	53.6
71.5°	34.8	37.2	42.0	50.9	53.2	51.6
72°	33.5	35.8	40.3	48.7	51.1	49.6
72.5°	32.2	34.4	38.7	46.8	48.9	47.6
73°	31.0	33.2	37.2	44.8	47.0	45.5
73.5°	29.9	31.8	35.7	42.8	44.9	43.6
74°	28.8	30.4	34.2	41.0	43.0	41.7
74.5°	27.6	29.1	32.7	39.0	41.1	39.8
75°	26.7	27.8	31.2	37.3	39.1	38.3
75.5°	25.7	26.6	29.9	35.6	37.4	36.5
76°	24.7	25.3	28.4	33.9	35.6	34.7
76.5°	23.7	24.1	27.1	32.2	33.9	32.7
77°	22.7	22.9	25.7	30.5	32.1	30.9
77.5°	21.6	21.8	24.4	28.9	30.4	29.3
78°	20.6	20.6	23.1	27.3	28.7	27.6
78.5°	19.6	19.5	21.8	25.7	27.1	25.9
79°	18.6	18.3	20.6	24.1	25.4	24.3
79.5°	17.5	17.3	19.3	22.6	23.8	22.7
80°	16.5	16.2	18.1	21.1	22.2	21.1
80.5°	15.5	15.1	17.0	19.7	20.7	19.6
81°	14.4	14.2	15.8	18.3	19.1	18.1
81.5°	13.4	13.1	14.6	17.0	17.6	16.6
82°	12.5	12.2	13.4	15.6	16.1	15.1
82.5°	11.5	11.2	12.4	14.3	14.7	13.8
83°	10.6	10.2	11.3	13.0	13.3	12.4
83.5°	9.6	9.3	10.2	11.8	11.8	10.9
84°	8.6	8.4	9.2	10.7	10.5	9.5
84.5°	7.7	7.5	8.2	9.5	9.2	8.1
85°	6.7	6.6	7.1	8.4	8.0	6.8
85.5°	5.8	5.8	6.2	7.4	6.8	5.4
86°	4.8	4.9	5.2	6.4	5.8	4.5
86.5°	3.9	4.1	4.3	5.3	4.8	3.7
87°	3.1	3.2	3.4	4.4	3.9	3.1
87.5°	2.2	2.5	2.6	3.5	3.1	2.3
88°	1.4	1.6	1.7	2.7	2.2	1.7
88.5°	0.6	0.9	0.7	1.8	1.5	1.0



TEST NUMBER: P775804
CATALOG NUMBER: HCDJBL510CSD-HCD6TSQH-HCD6TSQLWW-1000lm-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
90°	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - - 90°-270° - · - 135°-315°

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21.5°	525.6	519.3	496.5	458.9	407.4	357.0	314.9	291.6	284.2	291.3	314.0
22°	525.0	518.7	495.7	457.6	405.3	354.4	311.5	288.0	280.7	287.8	310.6



44°	313.5	334.5	365.4	293.2	232.3	193.9	164.2	145.2	138.8	145.9	165.0
44.5°	305.2	326.6	358.0	286.3	226.7	189.6	160.9	142.2	135.8	142.9	161.7



66.5°	74.4	76.1	73.8	61.5	53.2	49.2	47.7	49.3	48.2	49.6	48.6
67°	72.0	73.3	70.9	59.3	51.3	47.5	46.4	47.9	46.8	48.2	47.3



89°	0.3	0.2	0.2	0.2	0.1	0.1	0.0	0.1	0.0	0.1	0.1
89.5°	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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21.5°	351.8	400.9	450.2	490.1	515.4	525.6
22°	348.9	398.7	448.9	489.2	514.7	525.0



44°	189.3	225.9	279.8	359.6	333.6	313.5
44.5°	185.2	220.4	273.2	352.8	325.6	305.2



66.5°	49.2	53.7	61.2	75.6	77.4	74.4
67°	47.6	51.9	59.0	72.6	75.0	72.0

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89°	0.1	0.2	0.2	1.0	0.6	0.3
89.5°	0.0	0.0	0.0	0.2	0.1	0.0

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(END OF REPORT)